





# Recombinant Human Alpha-synuclein (SNCA)

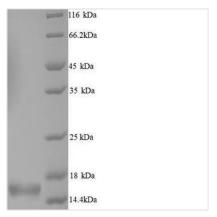
<b>Product Code</b>	CSB-YP021912HU
Relevance	May be involved in the regulation of dopamine release and transport. Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation.
Abbreviation	Recombinant Human SNCA protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P37840
Alias	Non-A beta component of AD amyloidNon-A4 component of amyloid precursor ;NACP
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDVFMKGLSKAKEGVVAAAEKTKQGVAEAAGKTKEGVLYVGSKTKEGVVHG VATVAEKTKEQVTNVGGAVVTGVTAVAQKTVEGAGSIAAATGFVKKDQLGKN EEGAPQEGILEDMPVDPDNEAYEMPSEEGYQDYEPEA
Research Area	Neuroscience
Source	Yeast
<b>Target Names</b>	SNCA
Protein Names	Recommended name: Alpha-synucleinAlternative name(s): Non-A beta
Expression Region	component of AD amyloid Non-A4 component of amyloid precursor Short name= NACP
Notes	name= NACP
Notes Tag Info	name= NACP  1-140aa  Repeated freezing and thawing is not recommended. Store working aliquots at
	name= NACP  1-140aa  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	name= NACP  1-140aa  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  N-terminal 6xHis-tagged



#### **CUSABIO TECHNOLOGY LLC**

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

### Description

CUSABIO used the Human Alpha-synuclein/SNCA DNA sequence encoding amino acids 1-140 to generate a fusion protein with an N-terminal 6xHistag. The resulting recombinant full-length protein was produced in the yeast. It was subjected to SDS-PAGE (15% gel) under reducing conditions and presented a molecular mass band of about 17 kDa on the gel. Its purity is over 90%. In addition to specific antibody production, this recombinant SNCA protein may be applied in the studies of synucleinopathies.

Human SNCA is an abundant neuronal protein primarily expressed in the brain, especially in the neocortex, hippocampus, substantia nigra (SN), thalamus, and cerebellum. It exerts diverse functions in multiple biological processes, such as inhibition of apoptosis in dopaminergic neurons, involvement in neuronal differentiation and dopamine metabolism, modulation of glucose levels and calmodulin activity, maintenance of polyunsaturated fatty acids levels, and neurotransmitter release and synaptic plasticity. Overexpression of SNCA leads to its accumulation as misfolded oligomers and large aggregates, thus triggering neurodegenerative diseases, such as Parkinson's disease (PD).

#### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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